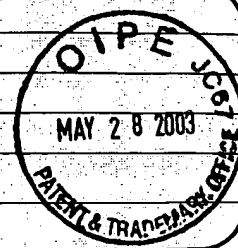


TRANSMITTAL FORM

(To be used for all correspondence after initial filing)



Total Number of Pages in This Submission

70

Application Number

09/349,915

Filing Date

July 8, 1999

First Named Inventor

June et al.

Art Unit

1644

Examiner Name

P. Gambel

Attorney Docket Number

36119-125 (US10)

ENCLOSURES (Check all that apply)



Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)



Response to Missing Parts/
Incomplete Application



Response to Missing Parts
under 37 CFR 1.52 or 1.53



Drawing(s)



Licensing-related Papers



Petition



Petition to Convert to a
Provisional Application



Power of Attorney, Revocation
Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) _____



After Allowance communication
to Group



Appeal Communication to Board
of Appeals and Interferences



Appeal Communication to Group
(Appeal Notice, Brief, Reply Brief)



Proprietary Information



Status Letter



Other Enclosure(s) (please
Identify below):

Remarks

- Amendment and Response under 37 C.F.R. Sec. 1.111
- Copies of 5 Notice of Recordation of Assignments
- Return Postcard

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm
or
Individual name

Colleen Superko, Reg. No. 39,850

Signature

Colleen Superko

Date

May 28, 2003

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES
PATENT AND
TRADEMARK OFFICE

SEPTEMBER 23, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

HALE AND DORR LLP
COLLEEN SUPERKO
60 STATE STREET
BOSTON, MA 02109



102167660A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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RECORDATION DATE: 07/18/2002

REEL/FRAME: 013110/0399
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

JUNE, CARL H.

DOC DATE: 07/17/2002

ASSIGNEE:

NAVY, UNITED STATES OF AMERICA AS
REPRESENTED BY THE SECRETARY OF,
THE
BALLSTON TOWER ONE
800 NORTH QUINCY STREET
ARLINGTON, VIRGINIA 22217

SERIAL NUMBER: 09553865
PATENT NUMBER:

FILING DATE: 04/20/2000
ISSUE DATE:

SERIAL NUMBER: 09349915
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09350202
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

HALE & DORR DOCKETING

RE: 36110.125 US10

Action Date: _____

Action to be Taken: _____

Docketed by: [Signature] On: 9-27-02

013110/0399 PAGE 2

SERIAL NUMBER: 09183055
PATENT NUMBER:

FILING DATE: 10/29/1998
ISSUE DATE:

SERIAL NUMBER: 08592711
PATENT NUMBER:

FILING DATE: 01/26/1996
ISSUE DATE:

SERIAL NUMBER: 08435816
PATENT NUMBER:

FILING DATE: 05/04/1995
ISSUE DATE:

SERIAL NUMBER: 08403253
PATENT NUMBER: 6352694

FILING DATE: 03/10/1995
ISSUE DATE: 03/05/2002

PAULA MCCRAY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

JUL 18 AM 10

07-25-2002

Form PTO-1595
(Rev. 03/01)

FINANCE SECTION



102167660

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Carl H. June

7-18-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

Execution Date: July 17, 2002

2. Name and address of receiving party(ies)

The United States of America as Represented By

Name: the Secretary of the Navy

Internal Address: Chief of Naval Research

Office of Counsel (Attn: Code 0000P)

Ballston Tower One

Street Address: 800 North Quincy Street

City: Arlington State: VA Zip: 22217

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/553,865, 09/349,915

09/350,202, 09/183,055, 08/592,711, 08/435,816

B. Patent No.(s) 6,352,694

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Hale and Dorr LLP

Internal Address: Colleen Superko

Street Address: 60 State Street

City: Boston State: MA Zip: 02109

6. Total number of applications and patents involved: 7

7. Total fee (37 CFR 3.41).....\$ 280.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

08-0219

DO NOT USE THIS SPACE

9. Signature.

Colleen Superko

Name of Person Signing

Signature

07/18/2002

Date

Total number of pages including cover sheet, attachments, and documents: 8

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

07/25/2002 870N11 00000022 080219 09553865

01 FC:581 280.00 CH

ASSIGNMENT

WHEREAS, I, CARL H. JUNE; of Merim, PA
in consideration of One Dollar and other valuable consideration paid to me by

THE UNITED STATES OF AMERICA
AS REPRESENTED BY THE SECRETARY OF THE NAVY

Chief of Naval Research, Office of Counsel (Attn: Code OOCIP), Ballston Tower One, 800 North
Quincy Street, Arlington, Virginia 22217, the receipt of which is hereby acknowledged, does hereby sell,
assign and transfer unto said

THE UNITED STATES OF AMERICA
AS REPRESENTED BY THE SECRETARY OF THE NAVY

its successors and assigns, the entire interest for the United States of America and all foreign countries
including all rights of priority under the International Convention for the Protection of Industrial
Property in a certain invention or improvement in COMPOSITIONS COMPRISING A FIRST AGENT
WHICH PROVIDES A PRIMARY ACTIVATION SIGNAL TO T CELLS AND A SECOND AGENT
WHICH STIMULATES AN ACCESSORY MOLECULE ON THE SURFACE OF T CELLS Described in an
application

_____ executed by me of even date herewith and about to be filed
✓ Serial No. 09/553,865, filed on April 20, 2000

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all
foreign countries which may or shall be granted on said invention, or any arts thereof, or on said
application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.
And I agree, for myself and my executors and administrators, with said corporation and its successors
and assigns but at its or their expense and charges, hereafter to execute all applications, amended
specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of
Letters Patent in the United States and in all other countries to said corporation, with specifications and
claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in
said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the
United States to issue such Letters Patent as shall be granted upon said application or applications based
thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 7th day of July, 2002.

By: [Signature]
CARL H. JUNE

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 17 day of July, 2002, the above named
CARL H. JUNE who acknowledged the foregoing instrument to be his free act and deed.

[Signature]
Notary Public

Notarial Seal
Eleanor Kindstrom, Notary Public
Philadelphia, Philadelphia County
My Commission Expires Mar. 21, 2003

Member, Pennsylvania Association of Notaries

ASSIGNMENT

WHEREAS, I, CARL H. JUNE; of Merion, PA
in consideration of One Dollar and other valuable consideration paid to me by

THE UNITED STATES OF AMERICA
AS REPRESENTED BY THE SECRETARY OF THE NAVY

Chief of Naval Research, Office of Counsel (Attn: Code OOCIP), Ballston Tower One, 800 North
Quincy Street, Arlington, Virginia 22217, the receipt of which is hereby acknowledged, does hereby sell,
assign and transfer unto said

THE UNITED STATES OF AMERICA
AS REPRESENTED BY THE SECRETARY OF THE NAVY

its successors and assigns, the entire interest for the United States of America and all foreign countries
including all rights of priority under the International Convention for the Protection of Industrial
Property in a certain invention or improvement in METHODS FOR SELECTIVELY STIMULATING
PROLIFERATION OF T-CELLS Described in an application

_____ executed by me of even date herewith and about to be filed
✓ Serial No. 09/349,915, filed on July 8, 1999

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all
foreign countries which may or shall be granted on said invention, or any arts thereof, or on said
application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.
And I agree, for myself and my executors and administrators, with said corporation and its successors
and assigns but at its or their expense and charges, hereafter to execute all applications, amended
specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of
Letters Patent in the United States and in all other countries to said corporation, with specifications and
claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in
said corporation, its successors and assigns, the legal title to all such patents.

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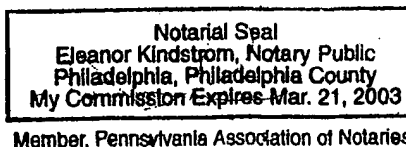
WITNESS my hand and seal this 17th day of July, 2002.

By: Carl H. June
CARL H. JUNE

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 17 day of July, 2002, the above named
CARL H. JUNE who acknowledged the foregoing instrument to be his free act and deed.

Eleanor Kindstrom
Notary Public



ASSIGNMENT

WHEREAS, I, CARL H. JUNE; of Merion, PA
in consideration of One Dollar and other valuable consideration paid to me by

THE UNITED STATES OF AMERICA
AS REPRESENTED BY THE SECRETARY OF THE NAVY

Chief of Naval Research, Office of Counsel (Attn: Code OOCIP), Ballston Tower One, 800 North
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Property in a certain invention or improvement in METHODS FOR SELECTIVELY STIMULATING
PROLIFERATION OF T-CELLS Described in an application

_____ executed by me of even date herewith and about to be filed
✓ Serial No. 09/350,202, filed on July 8, 1999

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all
foreign countries which may or shall be granted on said invention, or any arts thereof, or on said
application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.
And I agree, for myself and my executors and administrators, with said corporation and its successors
and assigns but at its or their expense and charges, hereafter to execute all applications, amended
specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of
Letters Patent in the United States and in all other countries to said corporation, with specifications and
claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in
said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the
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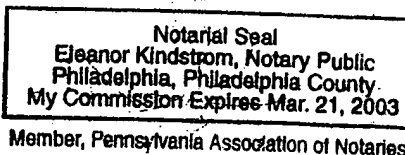
WITNESS my hand and seal this 17th day of July, 2002.

By: [Signature]
CARL H. JUNE

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 17 day of JULY, 2002, the above named
CARL H. JUNE who acknowledged the foregoing instrument to be his free act and deed.

[Signature]
Notary Public



ASSIGNMENT

WHEREAS, I, CARL H. JUNE; of Merion, PA
in consideration of One Dollar and other valuable consideration paid to me by

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Property in a certain invention or improvement in METHODS FOR SELECTIVELY STIMULATING
PROLIFERATION OF T-CELLS Described in an application

_____ executed by me of even date herewith and about to be filed
✓ Serial No. 09/183,055, filed on October 29, 1998

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all
foreign countries which may or shall be granted on said invention, or any arts thereof, or on said
application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.
And I agree, for myself and my executors and administrators, with said corporation and its successors
and assigns but at its or their expense and charges, hereafter to execute all applications, amended
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said corporation, its successors and assigns, the legal title to all such patents.

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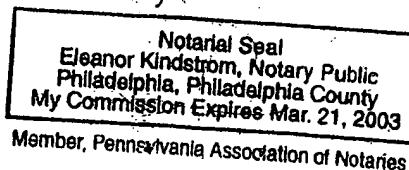
WITNESS my hand and seal this 17th day of July, 2002.

By: [Signature]
CARL H. JUNE

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 17 day of July, 2002, the above named
CARL H. JUNE who acknowledged the forgoing instrument to be his free act and deed.

[Signature]
Notary Public



ASSIGNMENT

WHEREAS, I, CARL H. JUNE; of Merion, PA
in consideration of One Dollar and other valuable consideration paid to me by

THE UNITED STATES OF AMERICA
AS REPRESENTED BY THE SECRETARY OF THE NAVY

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Property in a certain invention or improvement in METHODS FOR SELECTIVELY STIMULATING
PROLIFERATION OF T-CELLS Described in an application

_____ executed by me of even date herewith and about to be filed
✓ Serial No. 08/592,711, filed on January 26, 1996

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all
foreign countries which may or shall be granted on said invention, or any arts thereof, or on said
application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.
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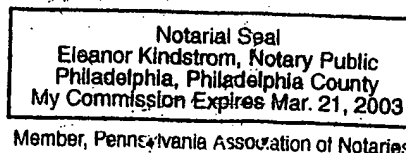
WITNESS my hand and seal this 17th day of July, 2002.

By: [Signature]
CARL H. JUNE

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 17 day of July, 2002, the above named
CARL H. JUNE who acknowledged the foregoing instrument to be his free act and deed.

[Signature]
Notary Public



ASSIGNMENT

WHEREAS, I, CARL H. JUNE; of Marion, PA
in consideration of One Dollar and other valuable consideration paid to me by

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AS REPRESENTED BY THE SECRETARY OF THE NAVY

Chief of Naval Research, Office of Counsel (Attn: Code OOCIP), Ballston Tower One, 800 North
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_____ executed by me of even date herewith and about to be filed
√ Serial No. 08/435,816, filed on May 4, 1995

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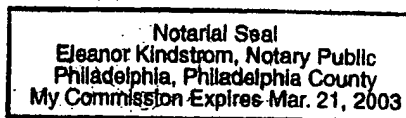
WITNESS my hand and seal this 17th day of July, 2002.

By: [Signature]
CARL H. JUNE

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 17 day of July, 2002, the above named
CARL H. JUNE who acknowledged the foregoing instrument to be his free act and deed.

[Signature]
Notary Public



Member, Pennsylvania Association of Notaries

ASSIGNMENT

WHEREAS, I, CARL H. JUNE; of Merion, PA
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Property in a certain invention or improvement in METHODS FOR SELECTIVELY STIMULATING
PROLIFERATION OF T-CELLS Described in an application

_____ executed by me of even date herewith and about to be filed
✓ Patent No. 6,352,694, granted on March 5, 2002

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all
foreign countries which may or shall be granted on said invention, or any arts thereof, or on said
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WITNESS my hand and seal this 17th day of July, 2002.

By: _____

CARL H. JUNE

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 17 day of JULY, 2002, the above named
CARL H. JUNE who acknowledged the foregoing instrument to be his free act and deed.

Eleanor Kindstrom
Notary Public

Notarial Seal
Eleanor Kindstrom, Notary Public
Philadelphia, Philadelphia County
My Commission Expires Mar. 21, 2003

Member, Pennsylvania Association of Notaries



UNITED STATES
PATENT AND
TRADEMARK OFFICE

SEPTEMBER 23, 2002

PTAS

HALE AND DORR LLP
COLLEEN SUPERKO
60 STATE STREET
BOSTON, MA 02109A

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



102167662A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/18/2002

REEL/FRAME: 013112/0161
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NABEL, GARY J.

DOC DATE: 05/28/2002

ASSIGNEE:

REGENTS OF THE UNIVERSITY OF
MICHIGAN, THE
475 EAST JEFFERSON
ROOM 2354
ANN ARBOR, MICHIGAN 48109

SERIAL NUMBER: 09553865
PATENT NUMBER:

FILING DATE: 04/20/2000
ISSUE DATE:

SERIAL NUMBER: 09349915
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09350202
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09183055
PATENT NUMBER:

FILING DATE: 10/29/1998
ISSUE DATE:

HALE & DORR DOCKETING

RE: 36119.125 US 16

Action Date:

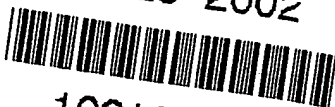
Action to be Taken:

Docketed by: On: 9-27-02

013112/0161 PAGE 2

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

07-25-2002



102167662

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Gary J. Nabel

7-18-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: May 28, 2002

2. Name and address of receiving party(ies)

Name: The Regents of the University of Michigan

Internal Address: Room 2354

Street Address: 475 East Jefferson

City: Ann Arbor State: MI Zip: 48109

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/553,865, 09/349,915
09/350,202, 09/183,055

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Hale and Dorr LLP

Internal Address: Colleen Superko

Street Address: 60 State Street

City: Boston State: MA Zip: 02109

6. Total number of applications and patents involved: 4

7. Total fee (37 CFR 3.41).....\$ 160.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

08-0219

DO NOT USE THIS SPACE

9. Signature.

Colleen Superko
Name of Person Signing

Signature

07/18/2002

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

7/25/2002 610H11 00000020 080219 09553865

1 FC:581

160.00 CH

ASSIGNMENT

WHEREAS, I, GARY J. NABEL; of _____, in consideration of One Dollar and other valuable consideration paid to me by

THE REGENTS OF THE UNIVERSITY OF MICHIGAN

Room 2354, 475 East Jefferson, Ann Arbor, MI 48109-1248, the receipt of which is hereby acknowledged, does hereby sell, assign and transfer unto said

THE REGENTS OF THE UNIVERSITY OF MICHIGAN

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in COMPOSITIONS COMPRISING A FIRST AGENT WHICH PROVIDES A PRIMARY ACTIVATION SIGNAL TO T CELLS AND A SECOND AGENT WHICH STIMULATES AN ACCESSORY MOLECULE ON THE SURFACE OF T CELLS Described in an application

_____ executed by me of even date herewith and about to be filed

✓ Serial No. 09/553,865, filed on April 20, 2000

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any arts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this _____ day of _____, 2002.

By: Gary J. Nabel
GARY J. NABEL

State of Maryland)
County of Montgomery)

Then personally appeared before me this 30th day of May, 2002, the above named Gary J. Nabel who acknowledged the foregoing instrument to be his free act and deed.

Patricia A. Butler
Notary Public

PATRICIA A. BUTLER
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires September 15, 2002

ASSIGNMENT

WHEREAS, I, GARY J. NABEL; of _____, in consideration of One Dollar and other valuable consideration paid to me by

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✓ Serial No. 09/349,915, filed on July 8, 1999

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County of Montgomery)

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✓ Serial No. 09/350,202, filed on July 8, 1999

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County of Montgomery)

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[Signature]
Notary Public

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My Commission Expires September 15, 2002

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✓ Serial No. 09/183,055, filed on October 29, 1998

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[Signature]
Notary Public

PATRICIA A. BUTLER
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires September 15, 2002



UNITED STATES
PATENT AND
TRADEMARK OFFICE

SEPTEMBER 23, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

HALE AND DORR LLP
COLLEEN SUPERKO
60 STATE STREET
BOSTON, MA 02109



102167643A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 07/18/2002

REEL/FRAME: 013111/0641
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GRAY, GARY S.

DOC DATE: 05/28/2002

ASSIGNEE:

REPLIGEN CORPORATION
ONE KENDALL SQUARE BLD. 700
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09553865
PATENT NUMBER:

FILING DATE: 04/20/2000
ISSUE DATE:

SERIAL NUMBER: 09349915
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09183055
PATENT NUMBER:

FILING DATE: 10/29/1998
ISSUE DATE:

SERIAL NUMBER: 09350202
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

HALE & DORR DOCKETING
RE: 36119.125 US10
Action Date: _____
Action to be Taken: AA
Docketed by: AA On: 9-27-02

013111/0641 PAGE 2

SERIAL NUMBER: 08453925
PATENT NUMBER: 5883223

FILING DATE: 05/30/1995
ISSUE DATE: 03/16/1999

ANTIONE ROYALL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

07-25-2002

Form PTO-1595

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(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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102167643

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Gary S. Gray

7-18-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: May 28, 2002

2. Name and address of receiving party(ies)

Name: Repligen Corporation

Internal Address: _____

Street Address: One Kendall Square, Bld. 700

City: Cambridge State: MA Zip: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/553,865, 09/349,915
09/350,202, 09/183,055, 09/350,202, 08/453,925

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Hale and Dorr LLP

Internal Address: Colleen Superko

Street Address: 60 State Street

City: Boston State: MA Zip: 02109

6. Total number of applications and patents involved: 6

7. Total fee (37 CFR 3.41).....\$ 240.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

08-0219

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9. Signature.

07/25/2002 6TON11 00000017 080219 09553865

240.00 CH

Colleen Superko
Name of Person SigningColleen Superko
Signature

07/18/2002

Date

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:
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 Washington, D.C. 20231

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 2002 JUL 18 10:51
 FINANCE SECTION

07/25/2002
 11 FC:581

ASSIGNMENT

WHEREAS, I, GARY S. GRAY; of Brookline, MA, in consideration of One Dollar and other valuable consideration paid to me by

REPLIGEN CORPORATION

One Kendall Square, Building 700, Cambridge, MA 02139, the receipt of which is hereby acknowledged, does hereby sell, assign and transfer unto said

REPLIGEN CORPORATION

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in COMPOSITIONS COMPRISING A FIRST AGENT WHICH PROVIDES A PRIMARY ACTIVATION SIGNAL TO T CELLS AND A SECOND AGENT WHICH STIMULATES AN ACCESSORY MOLECULE ON THE SURFACE OF T CELLS Described in an application

_____ executed by me of even date herewith and about to be filed

✓ Serial No. 09/553,865, filed on April 20, 2000

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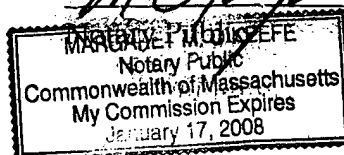
WITNESS my hand and seal this 28 day of May, 2002.

By: Gary S. Gray

CRAIG B. THOMPSON
GARY S. GRAY

State of Massachusetts)
County of Middlesex)

Then personally appeared before me this 28 day of May, 2002, the above named GARY S. GRAY who acknowledged the foregoing instrument to be his free act and deed.



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✓ Serial No. 09/349,915, filed on July 8, 1999

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WITNESS my hand and seal this 28 day of May, 2002.

By: _____

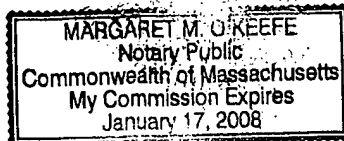
GARY S. GRAY

State of Massachusetts)

County of Middlesex)

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Notary Public



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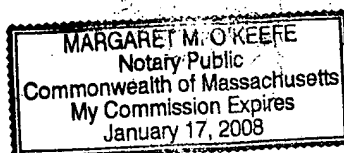
WITNESS my hand and seal this 28 day of May, 2002.

By: Gary S Gray
GARY S. GRAY

State of Massachusetts)
County of Middlesex)

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M O'Keefe
Notary Public



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✓ Serial No. 09/350,202, filed on July 8, 1999

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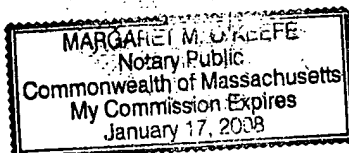
GARY S. GRAY

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M. O'Keefe
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✓ Serial No. 08/453,925, filed on May 30, 1995

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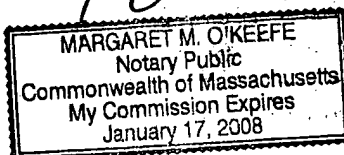
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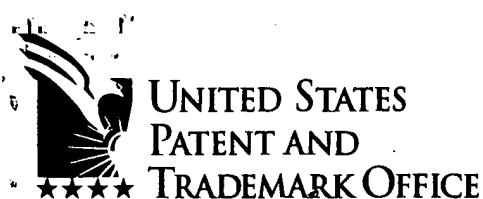
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Margaret M. O'Keefe
Notary Public





UNITED STATES
PATENT AND
TRADEMARK OFFICE

SEPTEMBER 23, 2002

PTAS

HALE & DORR, LLP
COLLEEN SUPERKO
60 STATE ST.
BOSTON, MA 02109

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



102167659A

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RECORDATION DATE: 07/18/2002

REEL/FRAME: 013112/0105
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

THOMPSON, CRAIG B.

DOC DATE: 06/19/2002

ASSIGNEE:

REGENTS OF THE UNIVERSITY OF
MICHIGAN, THE
475 EAST JEFFERSON, ROOM 2354
ANN ARBOR, MICHIGAN 48109

SERIAL NUMBER: 09553865
PATENT NUMBER:

FILING DATE: 04/20/2000
ISSUE DATE:

SERIAL NUMBER: 09349915
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09350202
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09183055
PATENT NUMBER:

FILING DATE: 10/20/1998
ISSUE DATE: 36119.125 US10

RE: HALE & DORR DOCKETING
Action Date: _____
Action to be Taken: AA
Docketed by: AA On: 92702

013112/0105. PAGE 2

SERIAL NUMBER: 08592711
PATENT NUMBER:

FILING DATE: 01/26/1996
ISSUE DATE:

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌

RECORDATION FORM

PATENTS

FINANCE SECTION

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

102167659

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Craig B. Thompson

2. Name and address of receiving party(ies)

Name: The Regents of the University of Michigan

Internal Address: Room 2354

Street Address: 475 East Jefferson

City: Ann Arbor State: MI Zip: 48109

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

Execution Date: June 19, 2002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/553,865, 09/349,915

09/350,202, 09/183,055, 08/592,711

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Hale and Dorr LLP

Internal Address: Colleen Superko

Street Address: 60 State Street

City: Boston State: MA Zip: 02109

6. Total number of applications and patents involved: 5

7. Total fee (37 CFR 3.41).....\$ 200.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

08-0219

DO NOT USE THIS SPACE

9. Signature.

Colleen Superko

Name of Person Signing

Signature

07/18/2002

Date

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

WHEREAS, I, CRAIG B. THOMPSON; of _____
in consideration of One Dollar and other valuable consideration paid to me by

THE REGENTS OF THE UNIVERSITY OF MICHIGAN

Room 2354, 475 East Jefferson, Ann Arbor, MI 48109-1248, the receipt of which is hereby acknowledged,
does hereby sell, assign and transfer unto said

THE REGENTS OF THE UNIVERSITY OF MICHIGAN

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in COMPOSITIONS COMPRISING A FIRST AGENT WHICH PROVIDES A PRIMARY ACTIVATION SIGNAL TO T CELLS AND A SECOND AGENT WHICH STIMULATES AN ACCESSORY MOLECULE ON THE SURFACE OF T CELLS Described in an application

_____ executed by me of even date herewith and about to be filed

✓ Serial No. 09/553,865, filed on April 20, 2000

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any arts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 15TH day of JUNE, 2002.

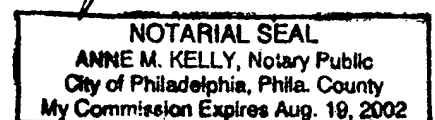
By: _____
CRAIG B. THOMPSON

State of PENNSYLVANIA)
County of PHILADELPHIA)

Then personally appeared before me this 19TH day of JUNE, 2002, the above named CRAIG B. THOMPSON who acknowledged the forgoing instrument to be his free act and deed.

Anne M. Kelly
Notary Public

Given and subscribed before me
this 19TH day of JUNE 2002



ASSIGNMENT

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PROLIFERATION OF T-CELLS Described in an application

_____ executed by me of even date herewith and about to be filed

✓ Serial No. 09/349,915, filed on July 8, 1999

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foreign countries which may or shall be granted on said invention, or any arts thereof, or on said
application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.
And I agree, for myself and my executors and administrators, with said corporation and its successors
and assigns but at its or their expense and charges, hereafter to execute all applications, amended
specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of
Letters Patent in the United States and in all other countries to said corporation, with specifications and
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said corporation, its successors and assigns, the legal title to all such patents.

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United States to issue such Letters Patent as shall be granted upon said application or applications based
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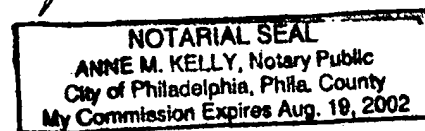
By: [Signature]
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✓ Serial No. 09/350,202, filed on July 8, 1999

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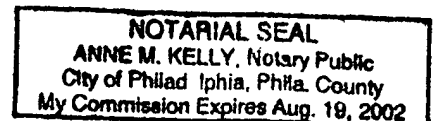
By: CRAIG B. THOMPSON

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✓ Serial No. 09/183,055, filed on October 29, 1998

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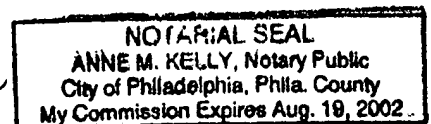
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√ Serial No. 08/592,711, filed on January 26, 1996

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By: CRAIG B. THOMPSON

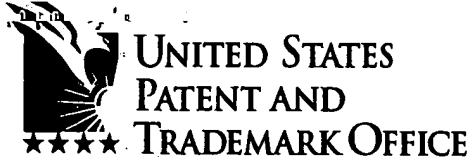
State of PENNSYLVANIA)
County of PHILADELPHIA)

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CRAIG B. THOMPSON who acknowledged the forgoing instrument to be his free act and deed.

Anne M. Kelly
Notary Public

Sworn to and subscribed before me
this 19TH day of JUNE 2002

NOTARIAL SEAL
ANNE M. KELLY, Notary Public
City of Philadelphia, Phila. County
My Commission Expires Aug. 19, 2002



SEPTEMBER 23, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

HALE AND DORR LLP
COLLEEN SUPERKO
60 STATE STREET
BOSTON, MA 02109



102167661A

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NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/18/2002

REEL/FRAME: 013112/0116
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RENNERT, PAUL D.

DOC DATE: 05/30/2002

ASSIGNEE:

REPLIGEN CORPORATION
ONE KENDALL SQUARE, BLD. 700
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09553865
PATENT NUMBER:

FILING DATE: 04/20/2000
ISSUE DATE:

SERIAL NUMBER: 09349915
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09350202
PATENT NUMBER:

FILING DATE: 07/08/1999
ISSUE DATE:

SERIAL NUMBER: 09183055
PATENT NUMBER:

FILING DATE: 10/29/1998
ISSUE DATE:

HALE & DORR DOCKETING
RE: 36119.125 USPO
Action Date: _____
Action to be Taken: _____
Docketed by: AA On: 9-30-02

013112/0116 PAGE 2

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

07-25-2002

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

RECOR



102167661

U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

JUL 18 2002

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OFFICE OF PUBLIC RECORDS ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Paul D. Rennert

FINANCE SECTION

2. Name and address of receiving party(ies)

Name: Repligen Corporation

Internal Address: _____

Street Address: One Kendall Square, Bld. 700

City: Cambridge State: MA Zip: 02139

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Execution Date: May 30, 2002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/553,865, 09/349,915
09/350,202, 09/183,055

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Hale and Dorr LLP

Internal Address: Colleen Superko

Street Address: 60 State Street

City: Boston State: MA Zip: 02109

6. Total number of applications and patents involved: 4

7. Total fee (37 CFR 3.41).....\$ 160.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

08-0219

DO NOT USE THIS SPACE

9. Signature.

Colleen Superko
Name of Person Signing

Signature

07/18/2002

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 2023107/25/2002 6TON11 00000021 080219 09553865
01 FC:581 160.00 CH

ASSIGNMENT

WHEREAS, I, PAUL D. RENNERT; of Millis, MA in consideration of One Dollar and other valuable consideration paid to me by

REPLIGEN CORPORATION

One Kendall Square, Building 700, Cambridge, MA 02139, the receipt of which is hereby acknowledged, does hereby sell, assign and transfer unto said

REPLIGEN CORPORATION

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in COMPOSITIONS COMPRISING A FIRST AGENT WHICH PROVIDES A PRIMARY ACTIVATION SIGNAL TO T CELLS AND A SECOND AGENT WHICH STIMULATES AN ACCESSORY MOLECULE ON THE SURFACE OF T CELLS Described in an application

_____ executed by me of even date herewith and about to be filed

✓ Serial No. 09/553,865, filed on April 20, 2000

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And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 30TH day of MAY, 2002.

By: _____

PAUL D. RENNERT

State of Massachusetts)
County of Middlesex)

Then personally appeared before me this 30th day of May, 2002, the above named PAUL D. Rennert who acknowledged the forgoing instrument to be his free act and deed.

Patricia A. Hofstetter
Notary Public

PATRICIA A. HOFSTETTER
Notary Public
My Commission Expires
May 19, 2006

ASSIGNMENT

WHEREAS, I, PAUL D. RENNERT; of Millis, MA, in consideration of One Dollar and other valuable consideration paid to me by

REPLIGEN CORPORATION

One Kendall Square, Building 700, Cambridge, MA 02139, the receipt of which is hereby acknowledged, does hereby sell, assign and transfer unto said

REPLIGEN CORPORATION

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✓ Serial No. 09/349,915, filed on July 8, 1999

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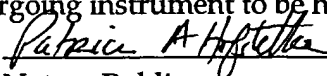
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